

09/09/2008,10566166II.trn

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NEWS	1		Web Page for STN Seminar Schedule - N. America
NEWS	2	APR 04	STN AnaVist, Version 1, to be discontinued
NEWS	3	APR 15	WPIDS, WPINDEX, and WPIX enhanced with new predefined hit display formats
NEWS	4	APR 28	EMBASE Controlled Term thesaurus enhanced
NEWS	5	APR 28	IMSRESEARCH reloaded with enhancements
NEWS	6	MAY 30	INPAFAMDB now available on STN for patent family searching
NEWS	7	MAY 30	DGENE, PCTGEN, and USGENE enhanced with new homology sequence search option
NEWS	8	JUN 06	EPFULL enhanced with 260,000 English abstracts
NEWS	9	JUN 06	KOREAPAT updated with 41,000 documents
NEWS	10	JUN 13	USPATFULL and USPAT2 updated with 11-character patent numbers for U.S. applications
NEWS	11	JUN 19	CAS REGISTRY includes selected substances from web-based collections
NEWS	12	JUN 25	CA/CAPplus and USPAT databases updated with IPC reclassification data
NEWS	13	JUN 30	AEROSPACE enhanced with more than 1 million U.S. patent records
NEWS	14	JUN 30	EMBASE, EMBAL, and LEMBASE updated with additional options to display authors and affiliated organizations
NEWS	15	JUN 30	STN on the Web enhanced with new STN AnaVist Assistant and BLAST plug-in
NEWS	16	JUN 30	STN AnaVist enhanced with database content from EPFULL
NEWS	17	JUL 28	CA/CAPplus patent coverage enhanced
NEWS	18	JUL 28	EPFULL enhanced with additional legal status information from the epline Register
NEWS	19	JUL 28	IFICDB, IFIPAT, and IFIUDB reloaded with enhancements
NEWS	20	JUL 28	STN Viewer performance improved
NEWS	21	AUG 01	INPADOCDB and INPAFAMDB coverage enhanced
NEWS	22	AUG 13	CA/CAPplus enhanced with printed Chemical Abstracts page images from 1967-1998
NEWS	23	AUG 15	CAOLD to be discontinued on December 31, 2008
NEWS	24	AUG 15	CAPplus currency for Korean patents enhanced
NEWS	25	AUG 25	CA/CAPplus, CASREACT, and IFI and USPAT databases enhanced for more flexible patent number searching
NEWS	26	AUG 27	CAS definition of basic patents expanded to ensure comprehensive access to substance and sequence information

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NEWS EXPRESS JUNE 27 08 CURRENT WINDOWS VERSION IS V8.3,  
AND CURRENT DISCOVER FILE IS DATED 23 JUNE 2008.

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\* \* \* \* \* STN Columbus \* \* \* \* \*

FILE 'HOME' ENTERED AT 09:52:16 ON 09 SEP 2008

=> file reg  
COST IN U.S. DOLLARS SINCE FILE TOTAL  
ENTRY SESSION  
FULL ESTIMATED COST 0.21 0.21

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STRUCTURE FILE UPDATES: 8 SEP 2008 HIGHEST RN 1047724-15-1  
DICTIONARY FILE UPDATES: 8 SEP 2008 HIGHEST RN 1047724-15-1

New CAS Information Use Policies, enter HELP USAGETERMS for details.

TSCA INFORMATION NOW CURRENT THROUGH July 5, 2008.

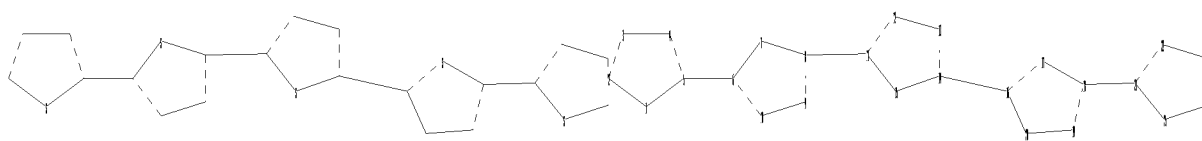
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=>  
Uploading C:\Program Files\Stnexp\Queries\10566166.str

09/09/2008,10566166II.trn



ring nodes :

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23  
24 25

chain bonds :

5-6 8-11 14-16 18-21

ring bonds :

1-2 1-5 2-3 3-4 4-5 6-7 6-10 7-8 8-9 9-10 11-12 11-15 12-13 13-14  
14-15 16-17 16-20 17-18 18-19 19-20 21-22 21-25 22-23 23-24 24-25

exact/norm bonds :

1-2 1-5 2-3 3-4 4-5 6-7 6-10 7-8 8-9 9-10 11-12 11-15 12-13 13-14  
14-15 16-17 16-20 17-18 18-19 19-20 21-22 21-25 22-23 23-24 24-25

exact bonds :

5-6 8-11 14-16 18-21

Match level :

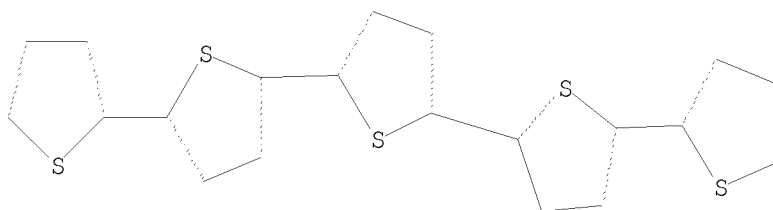
1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:Atom 10:Atom  
11:Atom 12:Atom 13:Atom 14:Atom 15:Atom 16:Atom 17:Atom 18:Atom 19:Atom  
20:Atom 21:Atom 22:Atom 23:Atom 24:Atom 25:Atom

L1 STRUCTURE UPLOADED

=> d l1

L1 HAS NO ANSWERS

L1 STR



Structure attributes must be viewed using STN Express query preparation.

=> s l1

SAMPLE SEARCH INITIATED 09:52:51 FILE 'REGISTRY'

SAMPLE SCREEN SEARCH COMPLETED - 236 TO ITERATE

100.0% PROCESSED 236 ITERATIONS

0 ANSWERS

SEARCH TIME: 00.00.01

09/09/2008,10566166II.trn

FULL FILE PROJECTIONS: ONLINE \*\*COMPLETE\*\*  
BATCH \*\*COMPLETE\*\*  
PROJECTED ITERATIONS: 3799 TO 5641  
PROJECTED ANSWERS: 0 TO 0

L2 0 SEA SSS SAM L1

=> s l1 full  
FULL SEARCH INITIATED 09:52:55 FILE 'REGISTRY'  
FULL SCREEN SEARCH COMPLETED - 5533 TO ITERATE

100.0% PROCESSED 5533 ITERATIONS 11 ANSWERS  
SEARCH TIME: 00.00.01

L3 11 SEA SSS FUL L1

=> file caplus  
COST IN U.S. DOLLARS SINCE FILE TOTAL  
ENTRY SESSION  
FULL ESTIMATED COST 178.36 178.57

FILE 'CAPLUS' ENTERED AT 09:52:58 ON 09 SEP 2008  
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.  
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FILE COVERS 1907 - 9 Sep 2008 VOL 149 ISS 11  
FILE LAST UPDATED: 8 Sep 2008 (20080908/ED)

Caplus now includes complete International Patent Classification (IPC) reclassification data for the second quarter of 2008.

Effective October 17, 2005, revised CAS Information Use Policies apply. They are available for your review at:

<http://www.cas.org/legal/infopolicy.html>

=> s l3  
L4 5 L3

=> d ed abs ibib hitstr tot

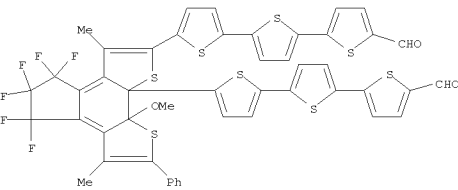
L4 ANSWER 1 OF 5 CAPLUS COPYRIGHT 2008 ACS on STN  
ED Entered STN: 12 Jan 2006  
AB New oligothiophenes having a photochromic switching unit were synthesized.

Upon irradiation with UV and visible light the oligomers underwent photochromic reactions in solution. The chain length dependence on the photoreactivity was examined to reveal that the reactivity decreased as the chain length gets longer. These mols. can be used as new photoswitching units.

ACCESSION NUMBER: 2006:28176 CAPLUS  
DOCUMENT NUMBER: 144:212599  
TITLE: Photochromic oligothiophenes  
AUTHOR(S): Tanifuji, Naoki; Irie, Masahiro; Matsuda, Kenji  
CORPORATE SOURCE: Precursory Research for Embryonic Science and Technology (PRESTO), Japan Science and Technology Agency (JST), Kyushu University, 744 Motooka, Fukuoka, 819-0395, Japan  
SOURCE: Chemistry Letters (2005), 34(12), 1580-1581  
CODEN: CMLTAG; ISSN: 0366-7022  
PUBLISHER: Chemical Society of Japan  
DOCUMENT TYPE: Journal  
LANGUAGE: English  
OTHER SOURCE(S): CASREACT 144:212599  
IT 875936-41-7P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)  
(preparation and photocyclization of photochromic oligothiophenes)

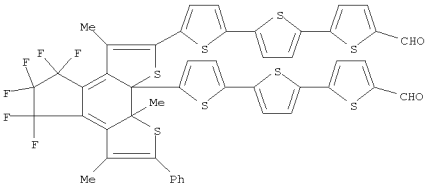
RN 875936-41-7 CAPLUS  
CN [2,2':5',2''-Terthiophene]-5-carboxaldehyde, 5'',5''''-(4,4,5,5,6,6-hexafluoro-4,5,6,9b-tetrahydro-9b-methoxy-3,7-dimethyl-2-phenyl-9aH-indeno[5,4-b:6,7-b']dithiophene-8,9a-diyl)bis- (9CI) (CA INDEX NAME)



IT 875936-40-6P 875936-42-8P 875936-43-9P  
RL: SPN (Synthetic preparation); PREP (Preparation)  
(preparation and photocyclization of photochromic oligothiophenes)

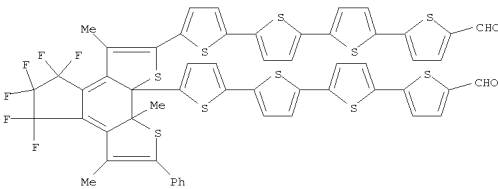
RN 875936-40-6 CAPLUS  
CN [2,2':5',2''-Terthiophene]-5-carboxaldehyde, 5'',5''''-(4,4,5,5,6,6-

L4 ANSWER 1 OF 5 CAPLUS COPYRIGHT 2008 ACS on STN (Continued)  
hexafluoro-4,5,6,9b-tetrahydro-3,7,9b-trimethyl-2-phenyl-9aH-indeno[5,4-b:6,7-b']dithiophene-8,9a-diyl)bis- (9CI) (CA INDEX NAME)



RN 875936-42-8 CAPLUS  
CN [2,2':5',2''-Quaterthiophene]-5-carboxaldehyde,

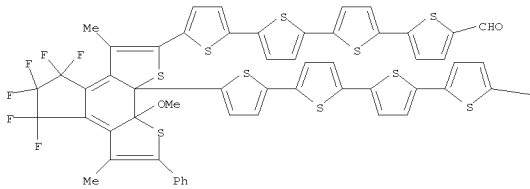
5'',5''''-(4,4,5,5,6,6-hexafluoro-4,5,6,9b-tetrahydro-3,7,9b-trimethyl-2-phenyl-9aH-indeno[5,4-b:6,7-b']dithiophene-8,9a-diyl)bis- (9CI) (CA INDEX NAME)



RN 875936-43-9 CAPLUS  
CN [2,2':5',2''-Quaterthiophene]-5-carboxaldehyde, 5'',5''''-(4,4,5,5,6,6-hexafluoro-4,5,6,9b-tetrahydro-3,7,9b-trimethyl-2-phenyl-9aH-indeno[5,4-b:6,7-b']dithiophene-8,9a-diyl)bis- (9CI) (CA INDEX NAME)

L4 ANSWER 1 OF 5 CAPLUS COPYRIGHT 2008 ACS on STN (Continued)

PAGE 1-A

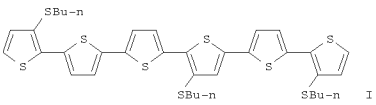


PAGE 1-B

CHO

REFERENCE COUNT: 14 THERE ARE 14 CITED REFERENCES AVAILABLE FOR THIS  
RECORD. ALL CITATIONS AVAILABLE IN THE RE  
FORMAT

L4 ANSWER 2 OF 5 CAPLUS COPYRIGHT 2008 ACS on STN  
ED Entered STN: 08 Dec 2003  
GI



AB The 3,3''',3''''-tris(butylsulfanyl)-2,2':5',2'':5'',2''',5''',2'''';5''''',2''''-sexithiophene 1 (I) was investigated through spectroscopic (NMR, EPR, UV/Vis-NIR), electrochem., spectroelectrochem. and theor. (DFT) studies. The charged species obtained upon its oxidation and reduction

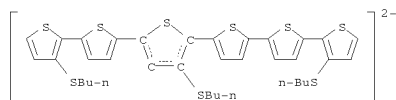
were characterized, showing that 1 can exist in at least five different oxidation

states, i.e., a neutral species, a radical cation, a dication, a radical anion, and a dianion. The long term stability of the radical cation 1+ was evidenced by the 1H NMR study in the presence of small quantities of trifluoroacetic acid (TFA). This approach allowed a comparison of the relative broadening of proton signals of 1, induced by the electron exchange process with traces of radical cation 1+, and the hfc (hyperfine coupling) consts. obtained from the EPR study and DFT calcs. In the radical cation, all of the heterocyclic sulfur atoms are not significantly involved in the delocalization of the unpaired electron, whereas the opposite holds for the radical anion. Time-dependent DFT calcs. reproduced well the wavelengths of the optical transitions observed in the spectroelectrochem. expts. for all the five oxidation states and support the formation of the dianion 12-.

ACCESSION NUMBER: 2003:952887 CAPLUS  
DOCUMENT NUMBER: 140:163411  
TITLE: Radical ions from 3,3''',3''''-tris(butylsulfanyl)-2,2':5',2'':5'',2''',5''',2'''';5''''',2''''-sexithiophene: An experimental and theoretical study of the p- and n-doped oligomer  
AUTHOR(S): Alberti, Angelo; Ballarin, Barbara; Guerra, Maurizio; Macciantelli, Dante; Mucci, Adele; Parenti, Francesca;  
CORPORATE SOURCE: Schenetti, Luisa; Seeber, Renato; Zanardi, Chiara  
Istituto per la Sintesi e la Fotoreattività ISOF-CNR, Bologna, 40129, Italy  
SOURCE: ChemPhysChem (2003), 4(11), 1216-1225  
CODEN: CPCHFT; ISSN: 1439-4235  
PUBLISHER: Wiley-VCH Verlag GmbH & Co. KGaA  
DOCUMENT TYPE: Journal  
LANGUAGE: English  
IT 655228-15-2  
RL: FMU (Formation, unclassified); PRP (Properties); FORM (Formation, nonpreparative)  
(diamagnetic dianion, NIR; NMR, EPR, UV/Vis-NIR, electrochem., and DFT studies of radical ion, dication, and dianion charged states of an oligothiophene)

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L4 ANSWER 2 OF 5 CAPLUS COPYRIGHT 2008 ACS on STN (Continued)  
RN 655228-15-2 CAPLUS  
CN 2,2':5',2'':5'',2''':5''',2''':5''',2''':5'''-Sexithiophene,  
3,3''',3''':5'''-tris(butylthio)-2''',3'''-dihydro-, ion(2-) (9CI) (CA  
INDEX NAME)

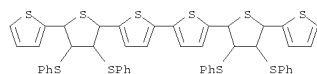


REFERENCE COUNT: 57 THERE ARE 57 CITED REFERENCES AVAILABLE FOR  
THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE  
FORMAT

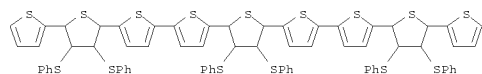
L4 ANSWER 3 OF 5 CAPLUS COPYRIGHT 2008 ACS on STN  
ED Entered STN: 19 Oct 1998  
AB The method for preparing, e.g., polythiophene uses a precursor having  
tetrahydrothiophene or THF units having arylthio or alkylthio  
substituents. The precursor is soluble and can be thermally converted  
into  
thiophene or furan units from solution The precursor model compound  
3,4-bis(phenylthio)-2,5-di-2-thienyltetrahydrofuran (I) was prepared by  
forming PhSCH<sub>2</sub>CO<sub>2</sub>H from PhSH and ClCH<sub>2</sub>CO<sub>2</sub>H, converting to the acid  
chloride, using this to acylate thiophene, self-coupling the product in  
the presence of CuCl<sub>2</sub> to form 2,3-bis(phenylthio)-1,4-di-2-thienyl-1,4-  
butanedione, reduction with LiAlH<sub>4</sub>, and cyclodehydration. Heating I to  
.apprx.250° for 30 min yields 2,5-di-2-thienylfuran. Polymerization of  
2,5-bis(5-bromo-2-thienyl)tetrahydro-3,4-bis(phenylthio)thiophene with  
bis(cyclooctadiene)nickel in 2,2'-bipyridyl gave a precursor polymer  
soluble  
in CHCl<sub>3</sub> or THF, which could be applied by spin-coating and thermally  
decomposed to a semiconductive polymer in the manufacture of a MISFET  
(metal-insulator-semiconductor field-effect transistor).  
ACCESSION NUMBER: 1998:658571 CAPLUS  
DOCUMENT NUMBER: 129:276537  
ORIGINAL REFERENCE NO.: 129:56391a,56394a  
TITLE: Method of preparing a thiophene- or furan  
ring-containing conjugated compound, and precursor  
compounds used therein  
INVENTOR(S): Chmill, Knut Holger; Brown, Adam Richard; De Leeuw,  
Dagobert Michel; Havinga, Edsko Enno; Pomp, Anita;  
Ten  
Hoeve, Wolter; Wijnberg, Hans  
PATENT ASSIGNEE(S): Koninklijke Philips Electronics N.V., Neth.  
SOURCE: Eur. Pat. Appl., 19 pp.  
CODEN: EPXXDW  
DOCUMENT TYPE: Patent  
LANGUAGE: English  
FAMILY ACC. NUM. COUNT: 1  
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 867437	A1	19980930	EP 1998-200580	19980224
EP 867437	B1	20021113		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI				
US 6124475	A	20000926	US 1998-39599	19980316
US 5919951	A	19990706	US 1998-158630	19980922
US 6184540	B1	20010206	US 1999-249968	19990212
PRIORITY APPLN. INFO.:				
			EP 1997-200760	A 19970314
			US 1998-39599	A3 19980316
			US 1998-158630	A3 19980922
IT 214044-38-9P 214044-41-4P 214044-44-7P				
214044-45-8P				
RL: SPN (Synthetic preparation); PREP (Preparation)				

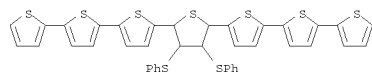
L4 ANSWER 3 OF 5 CAPLUS COPYRIGHT 2008 ACS on STN (Continued)  
(prepn. of precursors of thiophene- or furan ring-contg. conjugated  
compds.)  
RN 214044-38-9 CAPLUS  
CN 2,2':5',2'':5'',2''':5''',2''':5''',2''':5'''-Sexithiophene,  
2',2''',3',3''',4',4''',5',5'''-octahydro-3',3''',4',4'''-  
tetrakis(phenylthio)- (9CI) (CA INDEX NAME)



RN 214044-41-4 CAPLUS  
CN 2,2':5',2'':5'',2''':5''',2''':5''',2''':5'''-Novithiophene,  
'':5''',2''':5''',2''':5''',3',3''',3''',4',4''',5',5'''-  
dodecahydro-3',3''',3''':5''',4',4''',4''':5'''-hexakis(phenylthio)- (9CI) (CA INDEX  
NAME)



RN 214044-44-7 CAPLUS  
CN 2,2':5',2'':5'',2''':5''',2''':5''',2''':5'''-Septithiophene, 2''',3''',4''',5'''-tetrahydro-3''',4'''-bis(phenylthio)-  
(9CI) (CA INDEX NAME)



RN 214044-45-8 CAPLUS  
CN 2,2':5',2'':5'',2''':5''',2''':5''',2''':5'''-Novithiophene, 2''',3''',4''',5'''-tetrahydro-  
3''',4''',4''':5'''-bis(phenylthio)- (9CI) (CA INDEX NAME)

